	Application No.	Applicant(s)
	10/061 370	INOUE, ATSUKI
Notice of Allowability	10/061,379 Examin r	Art Unit
	Daniel D. Chang	2819
The MAILING DATE of this c mmunication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>Amendment filed Jun</u>	<u>ne 1, 2004</u> .	
2. The allowed claim(s) is/are <u>1-8</u> .		
3. The drawings filed on 12 April 2002 are accepted by the E	xaminer.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority unallocation and allocations.</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ul>	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  nitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review ( PTO	r national stage application from the complying with the requirements  R'S AMENDMENT or NOTICE OF ation is deficient.
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachm nt(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☐ Examiner's Amend	ite
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## Acknowledgement

Receipt is acknowledged of the Amendment filed June 1, 2004.

## Reasons for Allowance

Claims 1-8 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: the best prior art of record, Yoshioka, taken alone or in combination of other references, does not teach or fairly suggest a low swing charge recycling circuit comprising, among other things, a static driver including a PMOS transistor and an NMOS transistor which are coupled in series between at least one of (i) a power supply and an output terminal and (ii) a ground and the output terminal (claims 1 and 4); a pass gate network configured to receive the complementary carry input signals, the complementary generate signals and propagate signals and being controlled by the propagate signals to produce a sum signal by applying XOR operation to the complementary carry input signals with the propagate signals; an equalization circuit and a latch circuit (claim 5 and 6); and a voltage swing level of the static driver changes in at least one of (i) from ground level to Vdd-Vth and (ii) from Vth to Vdd (claim 8), as set forth in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (571) 272-1801. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Daniel D. Chang Primary Examiner

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